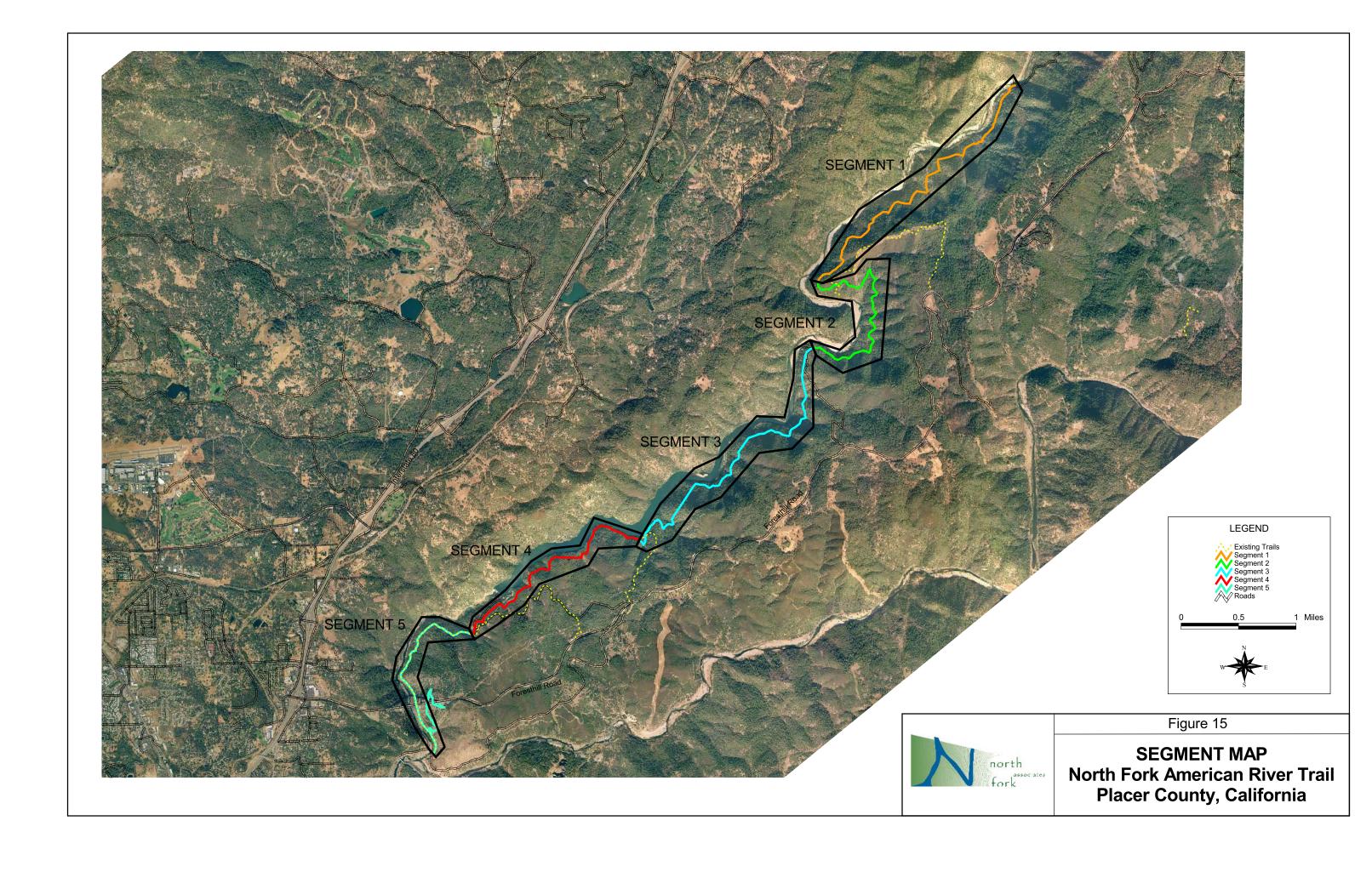
SEGMENT 1	Ponderosa Bridge to Long Point Trail; approximately 16,483 feet
SEGMENT 2	Long Point Trail to Upper Lake Clementine Road; approximately 12,004 feet
SEGMENT 3	Upper Lake Clementine Road to Lake Access Trail; approximately 16,872 feet
SEGMENT 4	Lake Access Trail to Lake Clementine Road; approximately 12,261 feet
SEGMENT 5	Lake Clementine Road to Confluence; approximately 9,277 feet

COST ESTIMATE

Trail construction costs are directly related to the design criteria established by the Trail Advisory Group. The TAG has recommended a four-foot wide trail with pullouts using hand construction. In addition, the meandering style of trail design approved by the TAG is more time consuming to construct and increases the actual length of the trail, therefore driving up the cost.

The total estimated construction cost of the project is \$1,286,550 (see the summary cost estimate that follows *Figure 15*). This estimate does not include any administrative or land acquisition costs. The estimates are based on using California Conservation Corps (CCC) hand crews. Maps of the five (5) individual trail segments, along with detailed cost estimates to construct each segment, are also provided in this section.

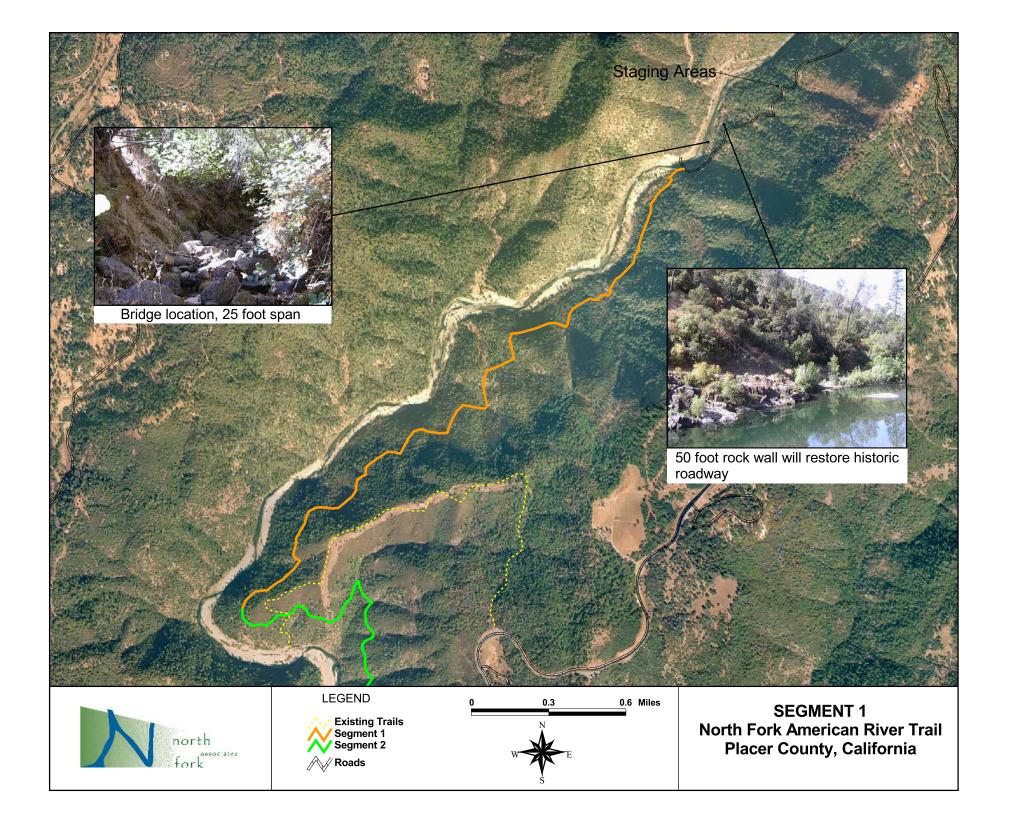


•	North Fork Tra	all - Hand Col		
Location:	Placer County	, California		
Project Manager:	Placer County			
Technical Supervisor:	Placer County			
Proposed Work Force:	CCC/Contract			
Estimated Project Length: * weeks with 12 perso	164 n crew, 7 hour	work day		
Estimated Labor Cost:	See Attached	Summary Sh	eet	
Estmated Material Cost:	See Attached	Summary Sh	eet	
			- " o	
Estimated Project Cost:	\$1,286,550		Funding Source:	
Project Need:	\$1,286,550 and Safety:		Funding Source:	
Project Need: Health			Funding Source:	
Project Need: Health	n and Safety: e Protection:		Funding Source:	
Project Need: Health Resourc Preservation of	n and Safety: e Protection:		Funding Source:	

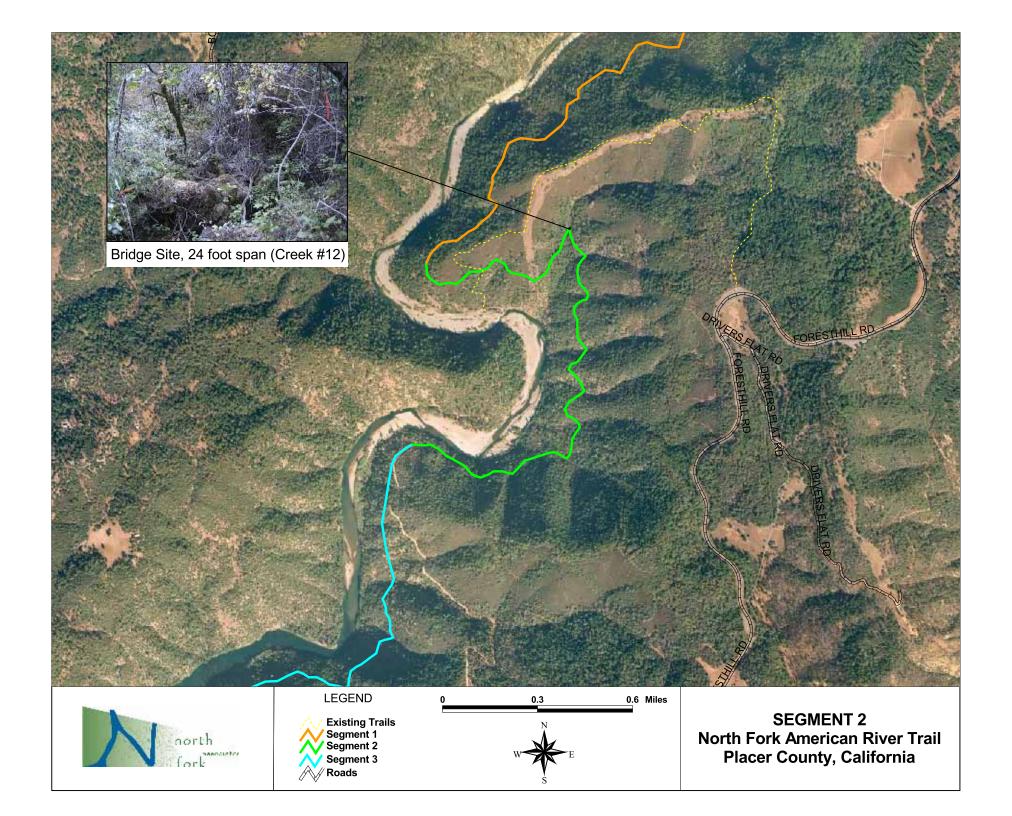
Cost Summary Estimate	UNIT		UNIT COST	ADMINISTRATIVE OVERHEAD PERCENT	TOTAL
Permit Costs:				TERCENT	
Fish and Game	1	ea	\$1,500.00		\$1,500.00
Cost of Materials:					ŕ
Attached Trail Maintenance Cost Sheets	1	ea	\$32,277.11		\$32,277.11
Attached Material Cost Sheet	0	ea			\$0.00
Labor Costs:					
Labor (CCC Costs)	57409	hr	\$13.00		\$746,313.98
CCC Travel time	8201	hr	\$13.00		\$106,616.28
Supervision / Coordination:					
Supervison - Technical Supervisor	5920	hr	\$27.00		\$159,840.00
Equipment Rental Costs:					
Excavator	24	hr	\$100.00		\$2,400.00
Operator	24	hr	\$35.00		\$840.00
Pick Up Truck		-	Supplied		\$0.00
Estimated milage	11100	miles	\$0.30		\$3,330.00
Staging Area Improvements:					
Forest Hill Bridge		ea	\$20,000.00		\$20,000.00
Ponderosa		ea	\$12,000.00		\$12,000.00
Sign Package	1	ea	\$5,000.00		\$5,000.00
Interpretive Displays:	1	ea	\$18,000.00		\$18,000.00
Resource Mitigation Items					
Straw Bales, Sand bags, Silt fencing etc.	1	ea	\$10,622.00		\$10,622.00
Contingency: 15%	1	ea	\$167,810.91		\$167,810.91

Total Cost \$1,286,550

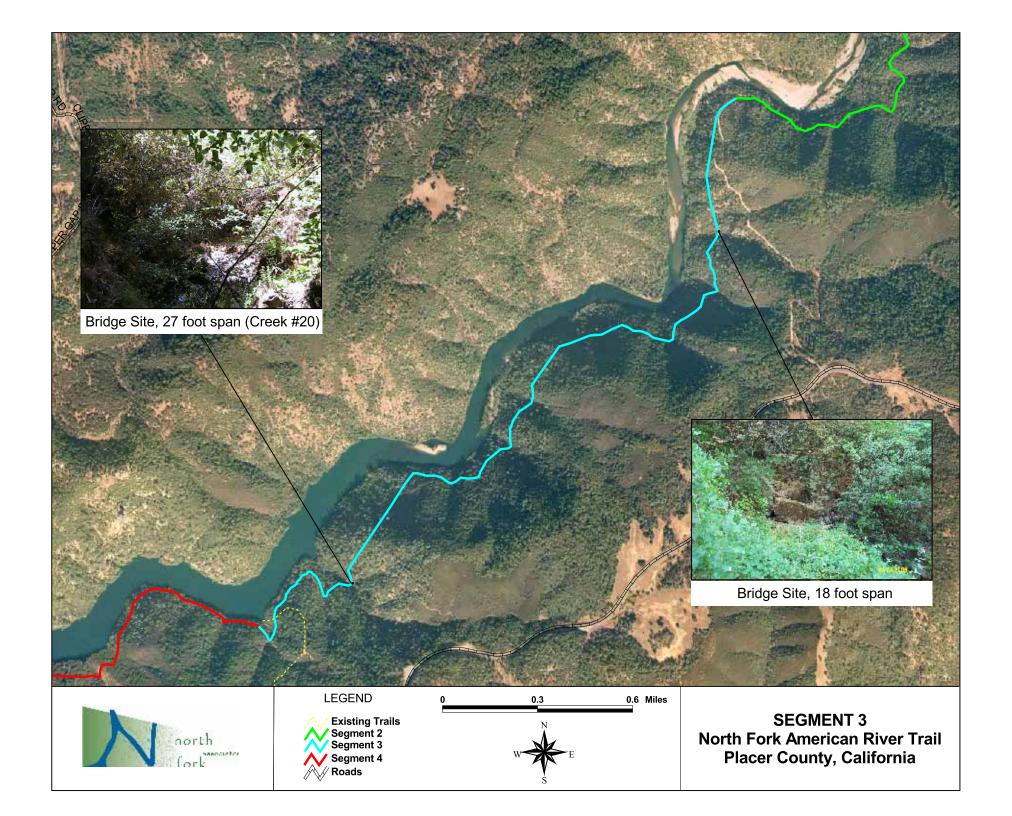
				PERSON			Material Costs Index	Unit Cost	<u>Unit</u>
CONSTRUCTION OR MAINTENANCE ACTIVITY	TOTALS	UNIT		HOURS OR COST PER UNIT	TOTAL PERSON HOURS	MATERIAL / EQUIPMENT COST	aggragate	\$35.00	yard
New Trail Clearing	16483	100ft	<u>a</u>	6.00 hr =	988.98		Mortar 94lb bag	\$5.00	bag
Trail Reroute & Reconstruction							3/8"cable galvanized	\$0.90	lin ft
Hand Crew Construction/Reconstruction	ction of 48" T	read					3/8"cable clamps	\$0.75	ea
Medium - Soil and Rock Matrix	8242	lin ft	<u>@</u>	0.40 hr =	3296.60		Rebar 5/8"	\$0.25	lin ft
Heavy - Talus slope/rocky	8242	lin ft	<u>a</u>	0.67 hr =	5494.67		Wood Beam Stock	\$2.50	bd ft
Retaining Wall Construction									
Rock									
General	1290	cu ft	<u>a</u>	1.50 hr =	1935.00				
Ponderosa Bridge Rock Wall	3000	cu ft	<u>a</u>	1.50 hr =	4500.00	\$4,866.67			
Riprap	1076	cu ft	<u>@</u>	1.50 hr =	1614.00				
Gathering Time for Rock	2366	cu ft	<u>a</u>	0.25 hr =	591.50				
Mixed by Hand	2.22	cu yd	<u>a</u>	8.00 hr =	17.78				
Form Boards materials	56.00	bd ft	<u>a</u>	1.00 bd ft		\$56.00			
Cement for Posts	11	sacks	<u>a</u>	\$6.00 ea		\$66.67			
Gravel Sand Cement Mix	2.22	cu yd	(a)	\$35.00 per yd		\$77.78			
Bridge Construction									
Standard Design	25	lin ft	(a)	16.00 hr =	400.00				
Bridge #2 Material cost	125	sq ft	Base	d on \$45 sqft Bid From Per	rma Post	\$5,625.00			
Silt Fence Installation	300	lin ft	@	0.10 =	30.00				
					Labor Hours	Materials			
					18868.53	\$10,692.11			



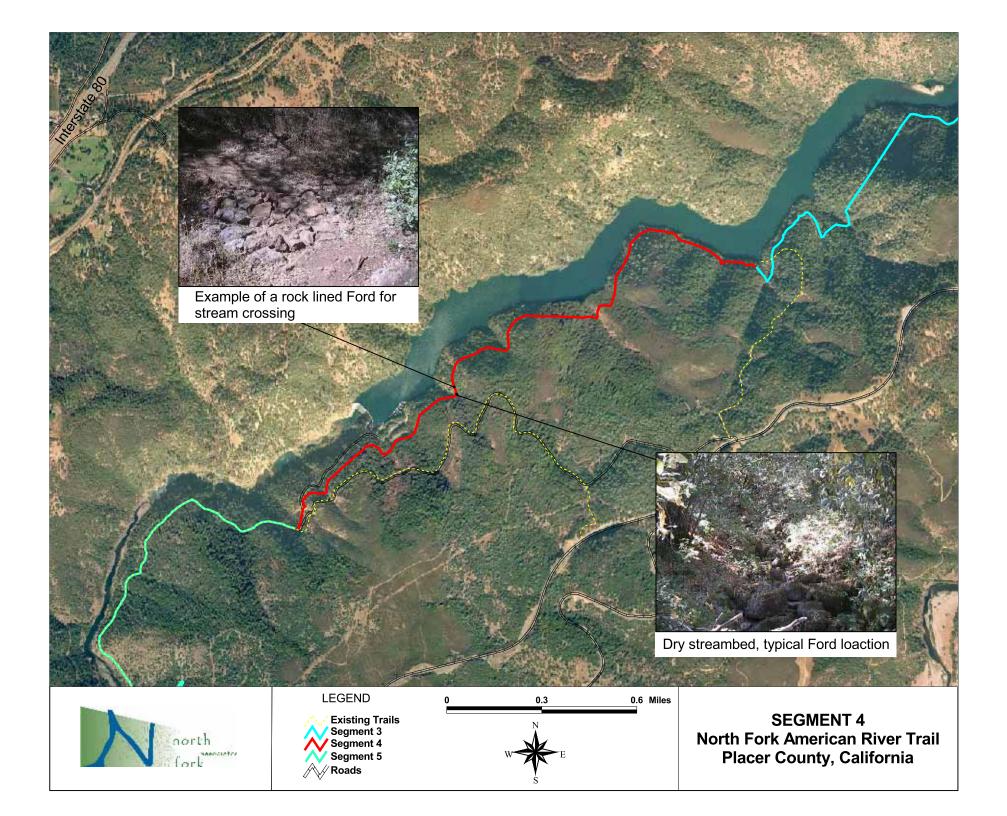
CONSTRUCTION OR MAINTENANCE ACTIVITY	TOTALS	UNIT		PERSON HOURS OR COST PER UNIT	TOTAL PERSON HOURS	MATERIAL / EQUIPMENT COST
New Trail Clearing	12004	100ft	<u>a</u>	6.00 hr =	720.24	
Trail Reroute & Reconsruction						
Hand Crew Construction/Reconstru	ction of 48"	Tread				
Light - Primary soil matrix	4004	lin ft	<u>@</u>	0.29 hr =	1161.16	
Medium - Soil and Rock Matrix	4000	lin ft	<u>a</u>	0.40 hr =	1600.00	
Heavy - Talus slope/rocky	4000	lin ft	<u>@</u>	0.67 hr =	2680.00	
Rock Excavation/Removal	1400	cuft	<u>a</u>	1.00	1,400.00	
Retaining Wall Construction						
Rock						
General	1215	cu ft	<u>@</u>	1.50 hr =	1822.50	
Riprap	1064	cu ft	<u>@</u>	1.50 hr =	1596.00	
Rock for dry rock structure	84	cu yd	<u>@</u>	\$0.00 per yd		\$0.00
Gathering Time for Rock	2279	cuft	<u>@</u>	0.25 hr =	569.75	
Bridge Abutments-Mortor	180	cuft	<u>@</u>	2.00 hr =	360.00	
Rock for mortared wall	7	cu yd	<u>@</u>	\$0.00 per yd		\$0.00
Gathering Time for Rock	180	cuft	<u>@</u>	0.25 hr =	45.00	
Mortar	140	94 lb bags	<u>@</u>	\$5.00 bag		\$700.00
Bridge Construction						
Standard Design	24	lin ft	<u>@</u>	16.00 hr =	384.00	
Bridge #2 Material cost	120	sq ft	Based	d on \$45 sqft Bid From Pe	rma Post	\$5,400.00
Silt Fence Installation	100	lin ft	@	0.10 =	10.00	
					Labor Hours 12348.65	Materials \$6,100.00



				PERSON HOURS OR		MATERIAL /
CONSTRUCTION OR				COST PER	TOTAL PERSON	EQUIPMENT
MAINTENANCE ACTIVITY	TOTALS	UNIT		UNIT	HOURS	COST
New Trail Clearing	16872	100ft	<u>@</u>	6.00 hr =	1,012.32	
Trail Reroute & Reconsruction						
Hand Crew Construction/Reconstru	iction of 48" T	Tread				
Light - Primary soil matrix	5624	lin ft	<u>@</u>	0.29 hr =	1630.96	
Medium - Soil and Rock Matrix	5624	lin ft	<u>@</u>	0.40 hr =	2249.60	
Heavy - Talus slope/rocky	5624	lin ft	<u>@</u>	0.67 hr =	3768.08	
Rock Excavation/Removal	640	cuft	<u>@</u>	1.00	640.00	
Retaining Wall Construction						
Rock						
General	1890	cu ft	<u>@</u>	1.50 hr =	2835.00	
Riprap	944	cu ft	<u>@</u>	1.50 hr =	1416.00	
Rock for dry rock structure	105	cu yd	<u>@</u>	\$0.00 per yd		\$0.00
Gathering Time for Rock	2834	cuft	<u>@</u>	0.25 hr =	708.50	
Mixed by Hand	80.00	cu yd	<u>@</u>	8.00 hr =	640.00	
Form Boards materials	160.00	bd ft	<u>@</u>	1.00 bd ft		\$160.00
Cement for Posts	400	sacks	<u>@</u>	\$6.00 ea		\$2,400.00
Gravel Sand Cement Mix	80.00	cu yd	<u>@</u>	\$35.00 per yd		\$2,800.00
Bridge Construction						
Standard Design	45	lin ft	<u>@</u>	16.00 hr =	720.00	
Bridge #2 Material cost	225	sq ft	Base	d on \$45 sqft Bid From Pe	rma Post	\$10,125.00
Silt Fence Installation	100	lin ft	@	0.10 =	10.00	
					Labor Hours 15630.46	Materials \$15,485.00



							Material Costs Index 1	Unit Cost	<u>Unit</u>
				PERSON					
				HOURS OR		MATERIAL /			
CONSTRUCTION OR				COST PER	TOTAL PERSON	EQUIPMENT			
MAINTENANCE ACTIVITY	TOTALS	UNIT		UNIT	HOURS	COST	aggragate	\$35.00	yard
New Trail Clearing	12261	100ft	<u>@</u>	6.00 hr =	735.66		Mortar 94lb bag	\$5.00	bag
Trail Reroute & Reconsruction							3/8"cable galvanized	\$0.90	lin ft
Hand Crew Construction/Reconstr	uction of 48"	Tread					3/8"cable clamps	\$0.75	ea
Medium - Soil and Rock Matrix	6131	lin ft	<u>@</u>	0.40 hr =	2452.20		Rebar 5/8"	\$0.25	lin ft
Heavy - Talus slope/rocky	6131	lin ft	<u>@</u>	0.67 hr =	4107.77		Wood Beam Stock	\$2.50	bd ft
Rock Excavation/Removal	640	cuft	<u>@</u>	1.00	640.00				
Retaining Wall Construction									
Rock									
General	810	cu ft	<u>@</u>	1.50 hr =	1215.00				
Riprap	576	cu ft	<u>@</u>	1.50 hr =	864.00				
Rock for dry rock structure	51	cu yd	<u>@</u>	\$0.00 per yd		\$0.00			
Gathering Time for Rock	1386	cuft	<u>@</u>	\$0.25 hr =	346.50				
Silt Fence Installation	400	lin ft	@	0.10 =	40.00				
					Labor Hours	Materials			
					10401.13	\$0.00			



Trail Cost Estimator North Fork Seg 5 9/19/2003

CONSTRUCTION OR MAINTENANCE ACTIVITY	TOTALS	UNIT		PERSON HOURS OR COST PER UNIT	TOTAL PERSON HOURS	MATERIAL / EQUIPMENT COST
Trail Reroute & Reconstruction						
Hand Crew Construction/Reconst	ruction of 48" [Гread				
Medium - Soil and Rock Matrix	400	lin ft	@	0.40 hr =	160.00	
					Labor Hours	Materials \$0.00

